

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-5. (cancelled)

6. (currently amended) A fuel injection nozzle comprising a housing, the housing comprising:

a nozzle needle bore having a central axis, an axial length, and a lower portion comprising a needle seat, an axial dimension of the lower portion being substantially smaller than the axial length of the bore;

an outside surface radially spaced from the axis; ~~and~~

a cooling duct arranged around the lower portion of the bore, the cooling duct being closer to the bore than to the outside surface of the housing, the cooling duct having a cross-sectional area in a plane through the central axis, the cross-sectional area having a height in the axial direction and a width transverse to the axis, the width being less than the height, wherein an entire height of said cooling duct is arranged at said lower portion proximate said needle seat; and

a cooling medium inflow line having a first portion extending axially in the housing and a second portion connecting the first portion to the cooling duct, the inflow line having a cross-sectional area, the cross-sectional area of the cooling duct being approximately twice the cross-sectional area of the inflow line.

7. (previously presented) The fuel injection nozzle of claim 6 wherein the width is 0.1 to 0.9 times the height.

8. (previously presented) The fuel injection nozzle of claim 7 wherein the width is approximately 0.25 times the height.

9. (currently amended) The fuel injection nozzle of claim ~~4~~ 6 wherein the cooling duct extends axially as far as the needle seat.

10. (cancelled)